

## 12 Port Industrial Unmanaged M12 Switch

# Sbjînk

## FEATURE HIGHLIGHTS

- 8x 10/100T(x) M12 connector
- 4x 10/100/1000T(x) M12 connector
- Support Bypass function
- IP40/IP54(Optional) housing
- EN50155, EN45545-2 railway certificates
- Compliant with ITxPT, E Mark for public transport
- Operating in wide temperature

#### DESCRIPTION

Sbjlink's RPT-M1012-4G, featuring 8 x Fast Ethernet ports and 4 x Gigabit uplink ports, are all designed with M12 connectors for vehicle application. With relay bypass function supporting in 4 Giga uplink ports, this switch can achieve non-stop communication while no power exists.

The power input of RPT-M1012-4G has redundant dual power inputs supporting 24-48VDC for most of the vehicles and high power input version, between 72V-110VDC. Operating temperature is extended between -40 degree C and 75 degree C. These are applicable on the vehicles and railway application.

To fit the on-board installation, the enclosure is slim and compact with IP40 and IP54 housing options. RPT-M1012-4G series all have EN50155 and EN45545-2 certificates for railway and E Mark for bus application. ITxPT is also design compliant to increase the interoperability with IT network for public transport.

This switch is an unmanaged switch but capable to modify into a web smart switch that enable IEEE 802.3x and provide flow control function.



# 12 Port Industrial Unmanaged M12 Switch

## **SPECIFICATIONS**

Technology	
Standards	IEEE 802.3 10BaseT
	IEEE 802.3u 100BaseTX
	IEEE 802.3ab 1000BaseT
Processing Type	Store and Forward
Switch Properties	
Switch Fabric	9.6Gbps
Priority Queues	-
MAC Table Size	8K
Packet Buffer	4Mbits
Interface	
Network Connector	8 x 10/100T(x) M12 Female D-coded 4-pole, 4x 10/100/1000T(x) M12 Female X-coded 8-pole, auto negotiation speed duplex mode, auto MDI/MDI-X
LED Indicators	Per unit: PWR1, PWR2, Status
	Ports: Link/Active
Power Requirements	
Operation Voltage	LV: 24-48VDC, HV: 72-110VDC, redundant dual inputs
Connection	M12 Male S-coded 4-pole
Power Consumption	15W
Protection	Overload Current Protected, Reverse Polarity Protected
Mechanical Construction	
Enclosure	SECC
Protection Class	IP40/IP54(Optional)
Dimensions	181x99x94 mm (WxHxD)
Weight	1.20 kg
Mounting	Wall Mounting Kits, Optional DIN-Rail Mounting
Environmental Limits	
Operating Temperature	Extended: -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)

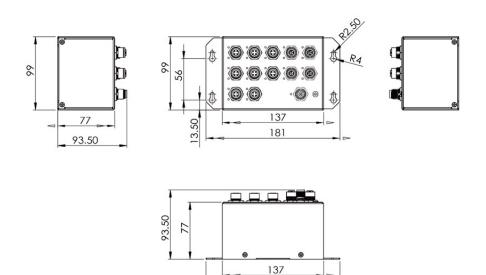


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## **SPECIFICATIONS**

Regulatory Approvals		
EMI	FCC Part 15 Subpart B Class A	
	CE EN 55032 Class A	
EMS	IEC61000-4-2 (ESD)	
	IEC61000-4-3 (RS)	
	IEC61000-4-4 (EFT)	
	IEC61000-4-5 (Surge)	
	IEC61000-4-6 (CS)	
	IEC61000-4-8 (Magnetic Field)	
Free Fall	IEC60068-2-32	
Shock	IEC61373	
Vibration	IEC61373	
Green	RoHS Compliant	
Certifications	EN 50155	
	EN 45545-2	
MTBF	>100,000 hours	
Warranty	5 Years	

# **DIMENSIONS** (Unit: mm)



181



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Ordering Information	
RPT-M1012-4G-LVDC-T-X2	12 Port Industrial Unmanaged Gigabit M12 Switch - 8 x 10/100T(x) + 4 x 10/100/1000T(x) M12 connector - Power Input: 24-48VDC - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - Protection Class: IP40 - UL Compliant
RPT-M1012-4G-LVDC-I54-T-X2 (IP54)	12 Port Industrial Unmanaged Gigabit M12 Switch - 8 x 10/100T(x) + 4 x 10/100/1000T(x) M12 connector - Power Input: 24-48VDC - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - Protection Class: IP54 - UL Compliant
RPT-M1012-4G-HVDC-T-X2	<ul> <li>12 Port Industrial Unmanaged Gigabit M12 Switch</li> <li>8 x 10/100T(x) + 4 x 10/100/1000T(x) M12 connector</li> <li>Power Input: 72-110VDC</li> <li>Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)</li> <li>Protection Class: IP40</li> <li>UL Compliant</li> </ul>
RPT-M1012-4G-HVDC-I54-T-X2 (IP54)	12 Port Industrial Unmanaged Gigabit M12 Switch - 8 x 10/100T(x) + 4 x 10/100/1000T(x) M12 connector - Power Input: 72-110VDC - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - Protection Class: IP54 - UL Compliant